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FORM PTO-1449 (Modified) (Rev. 7-80)		U.S. Dept. of Commerce Patent and Trademark Office		Atty Docket No. CRDP-2700 (CPC2000.004)	Appln. No. 09/128,304		
INFORMATION DISCLOSURE CITATION  (Use several sheets if necessary)				Applicant(s) N. PARKER WILLIS ET AL.			
		OCT 13 1998		Filing Date 8/3/98	Group		
<p style="text-align: center;"><b>U.S. PATENT DOCUMENTS</b> <b>AND TRADEMARK OFFICE</b></p>							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
EJH	AA	4,100,916	07-18-78	King	128	2V	04-27-76
	AB	4,173,228	11-06-79	Van Steenwyk et al.	128	653	05-16-77
	AC	4,304,239	12-08-81	Perlin	128	642	03-07-80
	AD	4,431,005	02-14-84	McCormick	128	656	05-07-81
	AE	4,444,195	04-24-84	Gold	128	642	11-02-81
	AF	4,499,493	02-12-85	Nishimura	358	111	02-22-83
	AG	4,522,212	06-11-85	Gelinas et al.	128	642	11-14-83
	AH	4,573,473	03-04-86	Hess	128	642	04-13-84
	AI	4,613,866	09-23-86	Blood	343	448	05-13-83
	AJ	4,628,937	12-16-86	Hess et al.	128	642	08-02-84
	AK	4,649,924	03-17-87	Taccardi	128	642	07-08-85
	AL	4,697,595	10-06-87	Breyer et al.	128	660	01-31-85
	AM	4,699,147	10-13-87	Chilson et al.	128	642	09-25-85
	AN	4,777,955	10-18-88	Brayton et al.	128	642	11-02-87
	AO	4,785,817	11-22-88	Stouffer	128	660.07	10-10-86
	AP	4,812,976	03-14-89	Lundy	364	413.06	01-15-87
	AQ	4,821,206	04-11-89	Arora	364	513	10-23-87
	AR	4,821,731	04-18-89	Martinelli et al.	128	662.06	12-08-87
EJH	AS	4,899,750	02-13-90	Ekwall	128	419 PG	04-19-88
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<i>Ett</i>	AT	4,922,912	05-08-90	Watanabe	128	642	10-03-88
<i>A</i>	AU	4,940,064	07-10-90	Desai	128	784	06-30-87
	AV	4,945,305	07-31-90	Blood	324	207.17	04-11-89
	AW	5,000,190	03-19-91	Petre	128	713	06-20-89
	AX	5,012,814	05-07-91	Mills et al.	128	691	11-09-89
	AY	5,025,786	06-25-91	Siegel	128	642	07-21-88
	AZ	5,041,973	08-20-91	Lebron et al.	364	413.05	05-01-89
	BA	5,042,486	08-27-91	Pfeiler et al.	128	653 R	09-12-90
	BB	5,054,492	10-08-91	Scribner et al.	128	662.06	12-17-90
	BC	5,054,496	10-08-91	Wen et al.	128	696	07-13-89
	BD	5,056,517	10-15-91	Fenici	128	419 P	07-24-89
	BE	5,081,993	01-21-92	Kitney et al.	128	661.08	05-09-90
	BF	5,104,393	04-14-92	Isner et al.	606	15	11-02-90
	BG	5,107,746	04-28-92	Bauer	84	626	02-26-90
	BH	5,154,501	10-13-92	Svenson et al.	128	419 D	10-19-90
	BI	5,156,151	10-20-92	Imran	128	642	02-15-91
	BJ	5,158,092	10-27-92	Glace	128	705	08-28-89
	BK	5,161,536	11-10-92	Vilkomerson et al.	128	660.07	03-22-91
	BL	5,172,699	12-22-92	Svenson et al.	128	705	10-19-90
	BM	5,214,615	05-25-93	Bauer	367	128	09-24-91
<i>Ett</i>	BN	5,220,924	06-22-93	Frazin	128	662.06	11-06-91
<i>Ett</i>	BO	5,222,501	06-29-93	Ideker et al.	128	660.03	01-31-92
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<i>ELEN</i>	BP	5,246,016	09-21-93	Lieber et al.	128	898	11-08-91
<i>A</i>	BQ	5,295,484	03-22-94	Marcus et al.	128	660.03	05-19-92
	BR	5,297,549	03-29-94	Beatty et al.	128	642	09-23-92
	BS	5,311,873	05-17-94	Savard et al.	128	696	08-28-92
	BT	5,335,663	08-09-94	Oakley et al.	128	662	12-11-92
	BU	5,341,807	08-30-94	Nardella	128	642	06-30-92
	BV	5,357,956	10-25-94	Nardella	128	642	11-13-92
	BW	5,367,614	11-22-94	Bisey	395	119	04-01-92
	BX	5,385,148	01-31-95	Lesh et al.	128	662.06	07-30-93
	BY	5,391,199	02-21-95	Ben-Haim	607	122	07-20-93
	BZ	5,412,619	05-02-95	Bauer	367	128	04-14-94
	CA	5,443,489	08-22-95	Ben-Haim	607	115	09-23-94
	CB	5,480,422	01-02-96	Ben-Haim	607	122	09-23-94
	CC	5,515,853	05-14-96	Smith et al.	128	661.01	03-28-95
	CD	5,546,951	08-20-96	Ben-Haim	128	702	09-23-94
<i>V</i>	CE	5,553,611	09-10-96	Budd et al.	128	642	01-20-95
<i>CLEN</i>	CF	5,568,809	10-29-96	Ben-haim	128	656	07-12-95
<i>CLEN</i>	CG	5,588,432	12-31-96	Crowley	128	660.03	07-10-95

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<i>ELE</i>	CH	5,590,657	01-07-97	Cain et al.	128	660.03	11-06-95
<i>A</i>	CI	5,669,878	09-23-97	Dickinson et al.	604	95	06-04-96
	CJ	5,694,945	12-09-97	Ben-Haim	128	736	10-23-95
	CK	5,713,946	02-03-98	Ben-Haim	607	122	10-28-96
	CL	5,779,638	07-14-98	Vesely et al.	A61B	8/00	04-17-97
<i>ELE</i>	CM	5,795,298	08-18-98	Vesely et al.	A61B	8/00	03-07-97
<i>ELE</i>	CN	5,797,849	08-25-98	Vesely et al.	A61B	8/00	03-07-97
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<i>ELE</i>	CO	0 499 491 A2	17.02.92	EPO	A61N	1/05	X
<i>ELE</i>	CP	EP 0 775 466 A2	22.11.1996	EPO	A61B	5/04	X
OTHER DOCUMENTS							
	CQ	Josephson, Mark E. et al., "Recurrent Sustained Ventricular Tachycardia," Univ. of Pennsylvania, <u>Circulation</u> , Vol. 57, No. 3, March, 1978, pp. 440-447.					
	CR	Josephson, Mark E. et al., "Comparison of Endocardial Catheter Mapping with Intraoperative Mapping of Ventricular Tachycardia," Univ. of Pennsylvania, <u>Circulation</u> , Vol. 61, No. 2, February, 1980, pp. 395-404.					
	CS	Josephson, Mark E. et al., "Role of Catheter Mapping in the Preoperative Evaluation of Ventricular Tachycardia," <u>The American Journal of Cardiology</u> , Vol. 49, January 1982, pp. 207-220.					
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	CU	Witkowski, Francis X. et al., "An automated simultaneous transmural cardiac mapping system," Special Communications, <u>The American Physiological Society</u> , 1984, pp. H661-H668.					
	CV	Holt, P.M. et al., "Ventricular arrhythmias, a guide to their localisation," <u>British Heart Journal</u> , 1985, Vol. 53, pp. 417-430.					
	CW	Fann, James I. et al., "Endocardial Activation Mapping and Endocardial Pace-Mapping Using a Balloon Apparatus," <u>The American Journal of Cardiology</u> , Vol. 55, April 1, 1985, pp. 1076-1083.					
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CX	<del>Hauer, Richard N.W. et al., "Endocardial catheter mapping: wire skeleton technique for representation of computed arrhythmogenic sites compared with intraoperative mapping," <i>Circulation</i>, Vol. 74, No. 6, December 1986, pp. 1346-1354.</del>			
CY	<del>Borg, I. et al., <i>Multidimensional Similarity Structure Analysis</i>, New York; Springer Verlay, 1987, pp. 308-329.</del>			
CZ	<del>deZwart, Michel et al., "Endocardial Catheter Mapping: Development of an Interactive Expert System for the Measurement of Local Activation and 3-Dimensional Electrode Position, Computers in Cardiology," <i>The Computer Society of the IEEE</i>, September 12-15, 1987, pp. 105-108.</del>			
DA	<del>Klein, R. et al., "A System for 3D Tracking of Limb Movement," <i>Proceedings of the Ninth Annual Conference of the IEEE Engineering in Medicine and Biology Society</i>, November 13-16, 1987, Vol. 4.</del>			
DB	<del>Pogwizd Steve M. et al., "Reentrant and Nonreentrant Mechanisms Contribute to Arrhythmogenesis During Early Myocardial Ischemia: Results Using Three-Dimensional Mapping," <i>Circulation Research</i>, Vol. 61, September 1986, pp. 352-371.</del>			
DC	<del>Fenici, R. R. et al., "Catheter Ablation of Cardiac Arrhythmias: Magnetocardiographic Localization of Electrocatheters and Arrhythmogenic Foci," <i>8th International Congress "The New Frontiers of Arrhythmias</i>, Marilleva, Italy, January 31 - February 6, 1988, pp. 723-731.</del>			
DD	<del>Huang, Shoei K. Stephen et al., "Radiofrequency Catheter Ablation of the Left and Right Ventricles: Anatomic and Electrophysiologic Observations," <i>Pace</i>, Vol. 11, April 1988, pp. 449-459.</del>			
DE	<del>Langberg, Jonathan J. et al., "The Echo-Transponder Electrode Catheter: A New Method for Mapping the Left Ventricle," <i>Journal of the American College of Cardiology</i>, Vol. 12, No. 1, July 1988, pp. 218-223.</del>			
DF	<del>Jackman, Warren M. et al., "New Catheter Technique for Recording Left Free-Wall Accessory Atrioventricular Pathway Activation (Identification of Pathway Fiber Orientation)," <i>Circulation</i>, Vol. 78, No. 3, September 1988, pp. 598-611.</del>			

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OTHER DOCUMENTS					
	DG	Young, A.A. et al., "Epicardial Surface Estimation from Coronary Angiograms," <u>Computer Vision, Graphics, and Image Processing</u> , Vol. 47, 1989, pp. 111-127.			
	DH	Fenici R. R. et al., "Magnetocardiographic Localization of a Pacing Catheter" <u>Advances in Biomagnetism</u> , 1989, pp. 361-364.			
	DI	Cikes, I. et al., "Cardiac catheterization guided by ultrasound," <u>Echocardiography in Cardiac Interventions</u> , 1989, pp. 77-88.			
	DJ	Ferek-Petric, B. et al., "Ultrasonically Marked Pacing System," <u>Echocardiography in Cardiac Interventions</u> , 1989, pp. 89-97.			
	DK	Kuchar, D. et al., "Electrocardiographic Localization of the Site of Origin of Ventricular Tachycardia in Patients With Prior Myocardial Infarction," <u>JACC</u> , Vol. 13, No. 4, March 15, 1989, pp. 893-900.			
	DL	Pagé, P. et al., "Surgical Treatment of Ventricular Tachycardia," <u>Circulation</u> , Sept. 1989, Vol. 80 (suppl I) pp. I-124 - I-134.			
	DM	Tweddell, J. et al., "Potential Mapping in Septal Tachycardia," <u>Circulation</u> , Sept. 1989, Vol. 80 (suppl I) pp. I-97 - I-108.			
	DN	Shenasa, M. et al., "Cardiac Mapping. Part I: Wolff-Parkinson-White Syndrome," <u>Pace</u> , Vol. 13 February 1990, pp. 223-230.			
	DO	Scheinman, M. et al., "Current Role of Catheter Ablative Procedures in Patients with Cardiac Arrhythmias," <u>Circulation</u> , Vol. 83, No. 6, June 1991, pp. 2146-2153.			
	DP	Buckles, D. et al., "Computer-Enhanced Mapping of Activation Sequences in the Surgical Treatment of Supraventricular Arrhythmias," <u>Pace</u> , Vol. 13, November 1990, pp. 1401-1407.			
	DQ	Aoyagi, S. et al., "Using Ultrasonic Waves," <u>IEEE</u> , (1991) pp. 2466-2471.			
	DR	Tanigawa, M. et al., "Prolonged and Fractionated Right Atrial Electrograms During Sinus Rhythm in Patients With Paroxysmal Atrial Fibrillation and Sick Sinus Node Syndrome," <u>The American College of Cardiology</u> , Feb. 1991, Vol. 17, No. 2, pp. 403-408.			
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DT	Massé, S. et al., "A Three-Dimensional Display for Cardiac Activation Mapping," <u>Pace</u> , Vol. 14, April 1991, Part I, pp. 538-545.					
DU	Kaltenbrunner, W. et al., "Epicardial and Endocardial Mapping of Ventricular Tachycardia in Patient With Myocardial Infarction," <u>Circulation</u> , Sept. 1991, Vol. 84, No. 3, pp. 1058-1071.					
DV	Potratz, J. et al., "Echocardiographic Guiding of Catheter-Electrode During Endocardial Mapping to Determine Location of Late Fractionated Potentials in Patients with Acute Myocardial Infarction," <u>European Heart Journal</u> , Vol. 12, Abstract Supplement, p. 235, abstract 1242 (August 1991).					
DW	Moshage, Werner et al., "Biomagnetic Localization of Ventricular Arrhythmias," <u>Radiology</u> , September 1991, pp. 685-692.					
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DY	Saumarez, R. et al., "Geometrically Accurate Transaortic Mapping of Left Ventricular Endocardial Activation During Surgery," <u>JACC</u> , Vol. 19, No. 1, January 1992, pp. 125-129.					
DZ	Chen, S. et al., "Reappraisal of Electrical Cure of Atrioventricular Nodal Reentrant Tachycardia - Lessons From a Modified Catheter Ablation Technique," <u>International Journal of Cardiology</u> , (1992) Vol. 37, pp. 51-60.					
EA	Pollak, S. et al., "Intraoperative Identification of a Radiofrequency Lesion Allowing Validation of Catheter Mapping of Ventricular Tachycardia with a Computerized Balloon Mapping System," <u>Pace</u> , Vol. 15, June 1992, pp. 854-858.					
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EF	Ruprecht, Detlef et al., "Spatial Free-Form Deformation with Scattered Data Interpolation Methods," <u>Computer &amp; Graphics</u> , Vol. 19, No. 1, 1995, pp. 63-71.					
EG	<u>Sonomicrometer Module--Model 201 Product Information Sheets (6 pages)</u> Triton Technology, Inc., 1995.					
EH	Ratcliffe, M. et al., "Use of Sonomicrometry and Multidimensional Scaling to Determine the Three-Dimensional Coordinates of Multiple Cardiac Locations: Feasibility and Initial Implementation," <u>IEEE Transactions on Biomedical Engineering</u> , Vol. 42, No. 6, June 1995, pp. 587-598.					
EI	Denney Jr., Thomas S. et al., "Reconstruction of 3-D Left Ventricular Motion from Planar Tagged Cardiac MR Images: An Estimation Theoretic Approach," <u>IEEE Transactions on Medical Imaging</u> , Vol. 14, No. 4, 1995, pp. 625-635.					
EJ	Clarysse, P. et al., "3D Boundary Extraction of the Left Ventricle by a Deformable Model with A Priori Information," IEEE, 1995, pp. 492-495.					
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<b>OTHER DOCUMENTS</b>							
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EL	Meyer, S. et al., "Application of Sonomicrometry and Multidimensional Scaling to Cardiac Catheter Tracking," IEEE Transactions on Biomedical Engineering, Vol. 44, No. 11, November 1997, pp. 1061-1067.						
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FORM PTO-1449 (Modified) (Rev. 7-80)				U.S Dept. of Commerce Patent and Trademark Office	Atty Docket No. CRDP-2700 (CPC2000.004)	Appln. No. 09/128,304	
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)				Applicant(s) N. PARKER WILLIS ET AL.			
				Filing Date August 3, 1998	Group 3737		
<b>U.S. PATENT DOCUMENTS</b>							
*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date
<i>Gillis</i>	AA	5,817,022	10/06/98	Vesely	600	443	03/11/97
	AB						
<b>FOREIGN PATENT DOCUMENTS</b>							
*Examiner Initials		Document Number	Date	Country	Class	Subclass	Translation YES NO
	AC						
<b>OTHER DOCUMENTS</b>							
	AD						
Examiner <i>ELENI MANTOS MERCADER</i>				Date Considered <i>07/20/2000</i>			
<p>* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

